

Capilene® CT 80 A

Polypropylene Random Copolymer

Carmel Olefins Ltd.

Message:

CAPILENE® CT 80 A is a specialty polypropylene combining the typical advantages of polypropylene random and heterophasic copolymers, and is designed for injection molding.

CAPILENE® CT 80 A features: excellent transparency, very high gloss, good stiffness/impact balance at room and low temperatures, good resistance to stress whitening, excellent organoleptic performance, energy saving and short cycle time.

Applications

CAPILENE® CT 80 A is suitable for: thin wall packaging, clear containers for food packaging,

| General Information | | | |
|---|-----------------------------------|----------|--------------|
| Features | Excellent Organoleptic Properties | | |
| | Rigid, good | | |
| | Highlight | | |
| | Copolymer | | |
| | Stress whitening | | |
| | Impact resistance, good | | |
| | Low temperature impact resistance | | |
| | Definition, high | | |
| Uses | Thin wall packaging | | |
| | Electrical appliances | | |
| | Shield | | |
| | Container | | |
| | Barrel | | |
| | Shell | | |
| | Toys | | |
| | Loading box | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| Appearance | Clear/transparent | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 25 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Yield) | 24.0 | MPa | ISO 527-2/50 |
| Tensile Strain (Yield) | 15 | % | ISO 527-2/50 |
| Flexural Modulus ¹ | 900 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ISO 180 |


| -20°C | 3.0 | kJ/m ² | ISO 180 |
|--|---------------|-------------------|-------------|
| 0°C | 6.0 | kJ/m ² | ISO 180 |
| 23°C | 18 | kJ/m ² | ISO 180 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 70.0 | °C | ISO 75-2/B |
| Vicat Softening Temperature | 131 | °C | ISO 306/A50 |
| Optical | Nominal Value | Unit | Test Method |
| Haze (1000 μm) | 12 | % | ASTM D1003 |
| NOTE | | | |
| 1. | 5.0 mm/min | | |

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